

[0061] Finally, an example of a 4X4 photo sensor array 300 used with the invention is shown in Figure 15. Within each pixel 200 there are two vertical wires 303 and 304, and two horizontal wires 301 and 302. An anti reflective coating 305 is shown formed on the outline of each cell. The gaps between the pixels are filled with conductive polymer 306 to enhance ground bias of the p+ terminal of the p i n diodes as well as to allow light to strike on the sidewall of each cell.

IN THE DRAWINGS:

Please substitute the attached formal drawings (7 sheets, containing Figs. 1-15) for the drawings which were originally filed with the parent application. The drawings originally filed with the parent application are attached to a copy of the originally filed specification which are included herewith.

IN THE CLAIMS:

Please cancel claims 1-19 and 32-33 without prejudice or disclaimer.

20. (Original) A method of forming an island photodiode comprising:
- forming a core in a substrate;
 - forming trenches in said substrate adjacent said core;
 - forming light sensing sidewalls along said trenches; and
 - forming logic circuitry above said core.